

FORM PTO-1449
Rev. 2-32)

U.S. Department of Commerce
Patent and Trademark Office

Atty. Docket No.

Serial No.

01-100

09/835,007

INFORMATION DISCLOSURE
STATEMENT BY APPLICANT
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Technology Center 2600

Applicant:
Rudger Rubbert et al.

Filing Date:
04/13/01

Group:
2621



U.S. PATENT DOCUMENTS

Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date if Appropriate
AWC ↓ ✓	6,434,278	08/13/02	Hashimoto	382	285	
	6,434,265	08/13/02	Xiong et al	382	154	
	6,363,163	03/26/02	Xu et al	382	130	
	6,047,078	04/04/00	Kang	382	107	
	5,937,083	08/10/99	Ostuni	382	131	
	5,748,199	05/05/98	Palm	345	473	

FOREIGN PATENT DOCUMENTS

Document Number	Date	Country	Class	Subclass	Translation	
					Yes	No

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc).

EXAMINER	DATE CONSIDERED
<i>AG</i>	11/29/01

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication.

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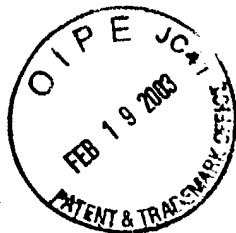
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Filing Date:

04/13/01

Group:

2621



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U.S. PATENT DOCUMENTS

Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date if Appropriate
dwe	6,407,735	06/18/02	Kressin	345	420	
	5,937,083	08/10/99	Ostuni	382	131	
	6,047,078	04/04/00	Kang	382	107	
	6,363,163	03/26/02	Xu et al.	382	130	
	6,434,265	08/13/02	Xiong et al.	382	154	
	6,434,278	08/13/02	Hashimoto	382	285	

FOREIGN PATENT DOCUMENTS

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							Yes	No

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc).

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EXAMINER	<i>CA</i>	DATE CONSIDERED	11/29/01
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U.S. PATENT DOCUMENTS

Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date if Appropriate
AWC	4,185,918	01/29/80	DiMatteo et al.	356	375	
	4,500,206	02/19/85	Cole et al.	356	376	
	4,575,805	03/11/86	Moermann et al	364	474	
	4,611,288	09/09/86	Duret et al.	364	474	
	4,663,720	05/05/87	Duret et al.	364	474	
	4,825,263	04/25/89	Desjardins et al	356	376	
	4,837,732	06/06/89	Brandestini et al.	364	413.28	
	4,867,570	09/19/89	Sorimachi et al	356	376	
	4,873,449	10/10/89	Paramythioti et al.	250	560	
	5,011,405	04/30/91	Lemchen	433	24	
	5,027,281	06/25/91	Rekow et al.	364	474.24	
	5,085,502	02/04/92	Womack et al.	356	376	
	5,166,878	11/24/92	Poelstra	364	424.01	
	5,289,264	02/22/94	Steinbichler	356	376	
	5,309,243	05/03/94	Tsai	348	221	
	5,372,502	12/13/94	Massen, et al.	433	215	
	5,424,836	06/13/95	Weise et al.	356	376	
	5,431,562	06/11/95	Andreiko et al.	433	24	
	5,545,039	08/13/96	Mushabac	433	215	
	5,608,211	03/04/97	Hirono et al.	250	234	
	5,615,003	03/25/97	Hermay et al.	356	3.03	
	5,878,159	03/02/99	Taleblou et al.	382	128	

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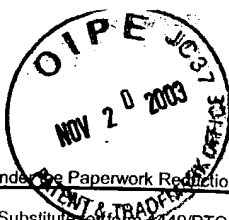
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U.S. PATENT DOCUMENTS (continued)

Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date if Appropriate
Awc	5,970,499	10/19/99	Smith et al.	707	104	
	5,975,893	11/02/99	Chisti et al	433	06	
	6,068,482	05/30/00	Snow	433	223	
	6,099,314	08/08/00	Kopelman et al.	433	213	
	6,217,325	04/17/01	Chishti et al.	433	24	
	6,227,850	05/08/01	Chishti et al.	433	24	
	6,227,851	05/08/01	Chishti et al.	433	24	



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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 1 of 1

Complete if Known

Application Number	09/835,007
Filing Date	Apr. 13, 2001
First Named Inventor	Ruedger Rubbert
Art Unit	2621
Examiner Name	
Attorney Docket Number	01-100

Examiner Initials*	Cite No. ¹	U. S. PATENT DOCUMENTS			
		Document Number Number-Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
Aue		US- 6,553,138 B2	04-22-2003	Rozin	
		US-			
		US-			
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Examiner Initials*	Cite No. ¹	FOREIGN PATENT DOCUMENTS			
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Date
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This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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Serial No.

09/835,007

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Subclass

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Date if
Appropriate

Awc

5,715,166

02/03/98

Besl et al.

364

.474.24

AWC

5,742,294

04/21/98

Watanabe et al.

345

425

Document Number

Date _____

Country

Class

Subclass

Translation

Yes

No

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Rüdger Rubbert, et al.

Filing Date:

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U.S. PATENT DOCUMENTS

Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date if Appropriate
AWC	5,278,756	01/11/94	Lemchen et al.	364	413	
	6,049,743	04/11/00	Baba	700	163	1
	6,081,739	06/27/00	Lemchen	600	407	
	6,405,071	06/11/02	Analoui	600	425	
	6,488,503	12/03/02	Lichkus	433	167	
	6,512,994	01/28/03	Sachdeva	702	167	

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FOREIGN PATENT DOCUMENTS

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Document Number	Date	Country	Class	Subclass	Translation
					Yes No

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EXAMINER	DATE CONSIDERED
<i>AWC</i>	11/29/04

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Complete if Known

Application Number	09/835,007
Filing Date	Apr. 13, 2001
First Named Inventor	Ruedger Rubbert
Art Unit	2621
Examiner Name	
Attorney Docket Number	01-100

U. S. PATENT DOCUMENTS

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This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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(Rev. 2-32)U.S. Department of Commerce
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Applicant:
Rudger Rubbert et al.Filing Date:
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U.S. PATENT DOCUMENTS

Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date if Appropriate
AWC	6,371,761	04/16/02	Cheang et al.	433	24	

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FOREIGN PATENT DOCUMENTS

		Document Number	Date	Country	Class	Subclass	Translation	
							Yes	No

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc).

AWC		Yee et al., "Three-Dimensional Imaging System", Optical Engineering, Vol. 33, No. 6, pp. 2070-2075 (June 1994)
EXAMINER		DATE CONSIDERED 11/29/04

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(2-32)U.S. Department of Commerce
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U.S. PATENT DOCUMENTS

Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date if Appropriate
AWC	5,988,862	11/23/99	Kacyra et al.	703	6	
	5,991,437	11/23/99	Migdal et al.	382	154	
	6,088,695	07/11/00	Kara	707	10	
	6,100,893	08/08/00	Ensz et al.	345	420	
	6,124,934	09/26/00	Shahar et al.	356	624	
	6,139,499	10/31/00	Wilk	600	443	
	6,167,151	12/26/00	Albeck et al.	382	154	
	6,201,546	03/13/01	Bodor et al.	345	430	
	6,205,716	03/27/01	Peltz	52	36.2	
	6,211,506	04/03/01	Pryor et al.	250	208.1	
	6,217,334	04/17/01	Hultgren	433	215	
	6,253,164	06/26/01	Rohm et al.	703	2	

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc).

AWC International Search Report dated August 15, 2001, for International Application No. PCT/US01/12107 of OraMetrix, Inc.

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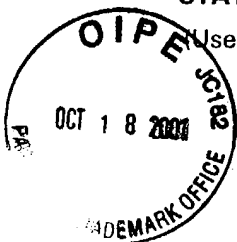
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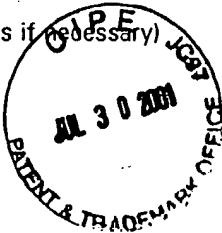
04/13/01

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Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date if Appropriate
AWC	Re. 35,816	06/02/98	Schulz	356	608	
	4,286,852	09/01/81	Stern et al.	396	106	
	4,294,544	10/13/81	Altschuler et al.	356	610	
	4,508,452	04/02/85	DiMatteo et al.	356	610	
	4,616,121	10/07/86	Clocksine et al.	219	124.34	
	4,745,469	05/17/88	Waldecker et al.	348	094	
	4,935,635	06/19/90	O'Harra	250	559.06	
	5,028,799	07/02/91	Chen et al.	250	561	
	5,098,426	03/24/92	Sklar et al.	606	5	
	5,131,844	07/21/92	Marinaccio et al.	433	72	
	5,214,686	05/25/93	Webber	378	38	
	5,243,665	09/07/93	Maney et al.	382	152	
	5,347,454	09/13/94	Mushabac	433	214	
	5,513,276	04/30/96	Theodoracatos	382	154	
	5,724,435	03/03/98	Malzbender	382	103	
	5,823,778	10/20/98	Schmitt et al.	433	214	
	5,848,115	12/08/98	Little et al.	378	4	
	5,880,961	03/09/99	Crump	700	112	
	5,886,775	03/23/99	Houser et al.	356	4.01	
	5,985,495	11/16/99	Okumura et al.	430	22	

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(Use several sheets if necessary)		Applicant: Rudger Rubbert et al.	
		Filing Date: 04/13/01	Group: 2621


U.S. PATENT DOCUMENTS

Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date if Appropriate
AWT	4,634,278	01/06/87	Ross et al.	356	376	
AWC	5,604,817	02/18/97	Massen et al.	382	120	

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Application Number	09/835,007
Filing Date	Apr. 13, 2001
First Named Inventor	Ruedger Rubbert
Art Unit	2625
Examiner Name	Aaron W. Carter
Attorney Docket Number	01-100

U. S. PATENT DOCUMENTS

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FOREIGN PATENT DOCUMENTS

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Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T ⁶
		Country Code ² *Number ⁴ *Kind Code ⁵ (if known)				
Aux		JP2000113193	04/21/2000	Fujii et al.		✓
Aux		JPH9-21620	01/21/1997	Hosokawa Katsum		✓

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11/29/04

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AWC	09/560,131		Rubbert et al.			04/28/00
↓	09/560,132		Rubbert et al.			04/28/00
↓	09/560,583		Rubbert et al.			04/28/00
↓	10/136,607		Weise, et al.			05/01/02

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<i>AWC</i>	11/29/04

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					Yes	No

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc).

Ave		Charles A. Pelizzari et al., "Accurate Three-Dimensional Registration of CT, PET, and/or MR Images of the Brain", <i>Journal of Computer Assisted Tomography</i> , 13(1):20-26, January/February, 1989.
↓		Klaus D. Toennies et al., "Registration of 3D Objects and Surfaces", <i>IEEE Computer Graphics & Applications</i> , 1990, pages 52-62.
↓		Behrooz Kamgar-Parsi et al., "Registration of Multiple Overlapping Range Images: Scenes without Distinctive Features", <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , Vol. 13, No. 9, September 1991, pages 857-871
↓		Hui Li et al., "Registration of 3-D Multimodality Brain Images by Curve Matching", <i>IEEE</i> , 1994, pages 1744-1748.
↓		Jean-Francois Mangin et al., "Nonsupervised 3D Registration of PET and MRI Data Using Chamfer Matching", <i>IEEE</i> , 1993, pages 1262-1264.
EXAMINER	DATE CONSIDERED 11/29/01	

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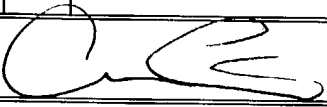
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					Yes	No

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AWC		S.M. Yamany and A.A. Farag, "A System for Human Jaw Modeling Using Intra-Oral Images" in <i>Proc. IEEE Eng. Med. Biol. Soc. (EMBS) Conf.</i> , Vol. 20, Hong Kong, Oct. 1998, pp. 563-566.
AWC		S.M. Yamany, A.A. Farag, David Tasman, A.G. Farman, "A 3-D Reconstruction System for the Human Jaw Using a Sequence of Optical Images," <i>IEEE Transactions on Medical Imaging</i> , Vol. 19, No. 5, May 2000, pp. 538-547.
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Amc		EP	02	5	0	9	9	3	06/12/87	Europe	—	—		X*
		EP	02	9	4	5	7	7	04/26/88	Europe	—	—	X	
		EP	03	9	1	5	3	2	03/05/90	Europe	—	—	X	
		DE	42	1	8	2	1	9	12/09/93	Germany	—	—		X*
		DE	44	4	5	5	5	2	06/29/95	Germany	—	—		X*
		DE	44	3	6	5	0	0	11/05/95	Germany	—	—		X*
		DE	38	2	9	9	2	5	03/15/90	Germany	—	—		X*
		DE	19	6	38	7	2	7	03/19/98	Germany	—	—	X	
		WO	98	1	1	4	0	3	03/19/98	PCT	—	—	X	
		WO	91	0	5	5	2	0	05/02/91	PCT	—	—	X	
		WO	98	1	1	4	0	4	03/19/98	PCT	—	—	X	
		WO	99	6	0	3	3	2	11/25/99	PCT	—	—	X	
		WO	98	1	0	2	4	3	03/12/98	PCT	—	—	X	
		CA	2	1	63	9	3	4	05/30/96	Canada	—	—	X	

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AWC			Syrinx Technologies, Inc. publication, "3D Scanner", circa 1998
			Journal of Prosthetic Dentistry article, Dianne Rekow, M.S.M.E., D.D.S., "Computer-aided Design and Manufacturing in Dentistry: A Review of the State of the Art", pp. 512 - 516, October 1987
			Optical Engineering, Vo. 33 No. 6, Yee et al., "Three-dimensional Imaging System", pp. 2070-2075, June 1994
			JADA article, Vol. 118, Karl F. Leinfelder et al., "A New Method for Generating Ceramic Restorations: A CAD-CAM System", pp. 703 - 707, June 1989

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		Document Number	Date	Country	Class	Subclass	Translation	
							Yes	No

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc).

hwc			Charles A. Pelizzari et al., "Accurate Three-Dimensional Registration of CT, PET, and/or MR Images of the Brain", <i>Journal of Computer Assisted Tomography</i> , 13(1):20-26, January/February, 1989.
			Klaus D. Toennies et al., "Registration of 3D Objects and Surfaces", <i>IEEE Computer Graphics & Applications</i> , 1990, pages 52-62.
			Behrooz Kamgar-Parsi et al., "Registration of Multiple Overlapping Range Images: Scenes without Distinctive Features", <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , Vol. 13, No. 9, September 1991, pages 857-871
			Hui Li et al., "Registration of 3-D Multimodality Brain Images by Curve Matching", <i>IEEE</i> , 1994, pages 1744-1748.
✓			Jean-Francois Mangin et al., "Nonsupervised 3D Registration of PET and MRI Data Using Chamfer Matching", <i>IEEE</i> , 1993, pages 1262-1264.
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APPLICANT **Beukema et al.**

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FILING DATE **April 25, 2002**GROUP ART UNIT **2661**

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EXAMINER INITIAL	DOCUMENT NO.	PUBLICATION DATE	INVENTOR NAME	CLASS/ SUBCLASS	FILING DATE

FOREIGN PATENT DOCUMENTS

EXAMINER PATENT DOCUMENTS							
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Awc	AA	WO 99/35793	Jul. 15, 1999	WIPO	H04L 12/56		X
f	AB	WO 00/52883	Sep. 8, 2000	WIPO	H04L 12/00		X
	AC	WO 97/28505	Aug. 7, 1997	WIPO	G06F 13/14		X

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<i>Awc</i>	AD	"Infiniband Architecture Release 1.0, Volume 1, General Specifications", October 24, 2000, pp. 1-880.				

RELATED PATENT APPLICATIONS

EXAMINER INITIAL	APPLICATION NO./ ATTY. DOCKET NO.	APPLICANT	TITLE	FILING DATE

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